ROLAND P. KELLY, P.E.
Consulting Civil Engineer
235 W. Magna Vista Avenue
Arcadia, California 91007-6942

May 1, 1992

Electronic Chrome & Grinding Co., Inc.
9128-32 Dice Rd.
Santa Fe Springs, CA 90670

Attention: Mike Reed
Vice President; General Manager

Subject: Tank and Containment
System Certifications

Gentlemen:

In support of subject certifications, the following information and data is submitted.

1. SITE INSPECTION

A site investigation was conducted on April 29, 1992. Tanks and containers used for the storage and treatment of industrial/hazardous wastewaters and wastes were inspected as well as associated containment systems.

2. OVERVIEW

Electronic Chrome & Grinding Co., Inc. provides chrome plating and grinding services to industrial and commerical clients. Industrial wastewaters are batch-treated on-site. Treatment consists of chemical mixing, sedimentation and sludge removal. Sludge is passed through a filter press. The filter cake is treated as a hazardous waste. Effluent from the filter press is returned to the industrial wastewater hold tank for further treatment. Decanted water from the settling tank is returned to the industrial water system. The on-site treatment system does not discharge any effluent into the sanitary sewer system. Industrial wastewaters are stored in tank located in the wastewater treatment facility area which is provided with a containment curb around the perimeter. The wastewater treatment area is approximately 12 feet by 40 feet. The waste water treatment facility was free of debris; there was no evidence of standing water; equipment was clean and appeared to be well-serviced. The waste water treatment facility was neat is well maintained as a mater of company policy.

3. ASSESSMENT OF EXISTING TANK INTEGRITY

Industrial wastewaters from chrome plating and grinding are stored in a hold tank, which is a double wall 500 gallon capacity polyethylene flat bottom tank vented to the atmosphere. This tank is an industrial product designed for the purpose of holding the wastewater which is stored. The tank did not exhibit any evidence of corrosion or structural deformation. Under normal operational conditions the tank should not rupture, break or deform.

A chrome stripper tank is used in the batch treatment of wastewater. The tank is a steel-lined, open top tank 18 inches deep, 14 inches wide and 9 feet long. The liner appeared to be intact; no scratches or breaks in the lining were observed. The steel tank did not exhibit any evidence of corrosion or structure deterioration. Design standards were followed such that under normal operational conditions the tank should not rupture, fail or crack.

The clarifier is a two-stage unit; each open top unit has a capacity of 500 gallons. The clarifier unit is constructed of steel with a steel support system. Design standards were followed such that under normal operation and maintenance the clarifier unit should not rupture, fail or crack. The tank and steel components did not exhibit any evidence of corrosion, deterioration or structural deformation.

Drums (55 gallon capacity) and tanks (various capacities) containing chemicals used in the treatment process are industrial products designed and manufactured for the purpose for which each are employed. Drums and tanks were clean, did not exhibit evidence of spillage, deterioration or structural deformation.

Filter cake is collected in a rectangular lined steel box. A forklift carries the box to and deposits the filter cake into a roll-on container. The roll-on container is a lined, double wall steel container covered with a security lid. The unit is operated and maintained by Environmental Security Systems, Inc. The filter cake is stored in the roll-on container until picked up for proper disposal. The roll-on unit was structurally intact. There was no evidence of cracks, structural deterioration or deformation, the cover was secured shut.

4. ASSESSMENT OF CONTAINMENT SYSTEM

Containment is provided as required around the on-site wastewater treatment facility. The curb was 8 inches wide and 8 inches high. The curb is constructed of concrete. The concrete is intact; there are no surface cracks, hairline cracks or chips in the surface. The interface between the concrete floor and curb is tight and there is

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no evidence of separation. The containment area has capacity to contain 150% of the contents of the largest tank. The containment appears to be well constructed, well maintained and of adequate capacity. There was no discoloration at concrete or evidence of surface deterioration such as exposure of aggregate.

5. CERTIFICATION

Based on observations made during the site investigation on April 29, 1992, it is hereby certified that the tanks described in preceeding sections have integrity within the context of Cal Code Regs, tit 22, sec 662664.191 and the containment system is suitably designed to achieve the requirements of Cal Code Regs, tit 22, see 66264.776. This certification is valid as of April 29, 1992.

Certified: Roland P. Kelly May 1 1992
Roland P. Kelly Date
Ca RCE No. 8450
(Expires 12/31/92)
Ca REA No. 395
(Expires 6/30/92)

If you have any questions, please contact me at (818) 446-2264 or (213) 583-6897.

Sincerely,

Roland P. Kelly
Roland P. Kelly
Consulting Engineer

RPK/rf

REGISTERED PROFESSIONAL ENGINEER
ROLAND PAUL KELLY
No. 8450
CIVIL
STATE OF CALIFORNIA

Roland P. Kelly
(Expires 12/31/92)